

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  BS/1-22796	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No.  PCT/EP 03/50838	International filing date (day/month/year)  17/11/2003	(Earliest) Priority Date (day/month/year)  26/11/2002
Applicant  CIBA SPECIALTY CHEMICALS HOLDING INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report
  - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
    - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
  - b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
    - contained in the international application in written form.
    - filed together with the international application in computer readable form.
    - furnished subsequently to this Authority in written form.
    - furnished subsequently to this Authority in computer readable form.
    - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
    - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
2.  Certain claims were found unsearchable (See Box I).
3.  Unity of invention is lacking (see Box II).
4. With regard to the title,
  - the text is approved as submitted by the applicant.
  - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
  - the text is approved as submitted by the applicant.
  - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is Figure No.
  - as suggested by the applicant.
  - because the applicant failed to suggest a figure.
  - because this figure better characterizes the invention.

None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50838

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C67/52 C07C231/22 C07C231/24 C08K5/13 C08K5/134  
C08K5/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C08K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 375 977 B1 (APERT LAURENT ET AL) 23 April 2002 (2002-04-23) *abstract; column 3, last paragraph; column 4, lines 1-19; column 6, lines 11-19; the examples, in particular examples 1, 4, 7-9, 12, and 14 and the claims* ---	1-3,5,8, 9,11-13
X	EP 0 563 906 A (UNION CARBIDE CHEM PLASTIC) 6 October 1993 (1993-10-06) *page 5, lines 57 and 58; page 6, lines 3 and 4 ; table 1 and the claims* ---	1-5,8-17
X	EP 0 562 856 A (POLYPLASTICS CO) 29 September 1993 (1993-09-29) *page 3, lines 19-29 and 40-51; page 8, lines 1-27 and the claims* ---	1-5,8-17
	-/-	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

3 May 2004

Date of mailing of the international search report

17/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Lorenzo Varela, M.J.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50838

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 498 620 A (POLYPLASTICS CO) 12 August 1992 (1992-08-12) *claims; page 4, lines 27-33 and page 5, lines 4-21 and 50*	1-5,8-17
X	DATABASE WPI Section Ch, Week 198832 Derwent Publications Ltd., London, GB; Class A96, AN 1988-224229 XP002278399 & JP 63 159315 A (YUTOKU YAKUHIN KOGY), 2 July 1988 (1988-07-02) abstract	1-3,5,8, 9,11-13
X	US 4 708 979 A (MEYER WALTER W ET AL) 24 November 1987 (1987-11-24) *column 4, lines 9-27; examples 1-6 and the claims*	1-3,5,8, 9,11-13
Y	US 4 683 326 A (ORBAN IVAN ET AL) 28 July 1987 (1987-07-28) the whole document	1-17
Y	US 4 547 585 A (YOSHIMURA TADATOSHI ET AL) 15 October 1985 (1985-10-15) the whole document	1-17
Y	AU 288 839 B (J. R. GEIGY) 27 April 1967 (1967-04-27) the whole document	1-17
Y	US 3 644 482 A (STEINBERG DAVID H ET AL) 22 February 1972 (1972-02-22) the whole document	1-17
Y	GB 1 327 591 A (YAMANOUCHI PHARMA CO LTD) 22 August 1973 (1973-08-22) *page 1, left column and page 2, left column*	1-17
Y	US 3 543 293 A (OKADA RYUZO ET AL) 24 November 1970 (1970-11-24) *columns 1 and 3 and the claims*	1-17
Y	US 3 666 809 A (OKUNO KENZO ET AL) 30 May 1972 (1972-05-30) *column 1, lines 56-76 and column 3, lines 16-25*	1-17

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP 03/50838

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6375977	B1	23-04-2002		FR 2775903 A1 AU 2734299 A CA 2323518 A1 EP 1061965 A1 PL 342855 A1 CN 1136011 B WO 9945977 A1	17-09-1999 27-09-1999 16-09-1999 27-12-2000 16-07-2001 28-01-2004 16-09-1999
EP 0563906	A	06-10-1993		AU 3557893 A BR 9301365 A CA 2092952 A1 EP 0563906 A1 JP 6041348 A	07-10-1993 13-10-1993 01-10-1993 06-10-1993 15-02-1994
EP 0562856	A	29-09-1993		JP 5271516 A AT 153363 T BR 9301198 A CA 2092509 A1 DE 69310796 D1 DE 69310796 T2 EP 0562856 A2 MX 9301735 A1	19-10-1993 15-06-1997 28-09-1993 27-09-1993 26-06-1997 18-12-1997 29-09-1993 31-01-1994
EP 0498620	A	12-08-1992		JP 3024802 B2 JP 7173369 A AT 153362 T DE 69219800 D1 DE 69219800 T2 EP 0498620 A1 KR 9610841 B1 US 5212222 A	27-03-2000 11-07-1995 15-06-1997 26-06-1997 11-12-1997 12-08-1992 09-08-1996 18-05-1993
JP 63159315	A	02-07-1988		JP 1670501 C JP 3031685 B	12-06-1992 08-05-1991
US 4708979	A	24-11-1987		CA 1282893 C DE 3673055 D1 EP 0200684 A2 JP 2044756 C JP 7064959 B JP 61261333 A	09-04-1991 06-09-1990 05-11-1986 09-04-1996 12-07-1995 19-11-1986
US 4683326	A	28-07-1987		CA 1254905 A1 DE 3663805 D1 EP 0210131 A2 JP 2604333 B2 JP 8067654 A JP 2078230 C JP 7094403 B JP 62022745 A	30-05-1989 13-07-1989 28-01-1987 30-04-1997 12-03-1996 09-08-1996 11-10-1995 30-01-1987
US 4547585	A	15-10-1985		JP 1346902 C JP 57197245 A JP 61009931 B CA 1177092 A1 DE 3260497 D1 EP 0066189 A1	13-11-1986 03-12-1982 27-03-1986 30-10-1984 06-09-1984 08-12-1982

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP 03/50838

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
AU 288839	B	NONE			
US 3644482	A 22-02-1972	US 3330859 A		11-07-1967	
		US 3277152 A		04-10-1966	
		US 3779945 A		18-12-1973	
		AT 257952 B		10-11-1967	
		BE 662372 A		12-10-1965	
		CH 455278 A		28-06-1968	
		DE 1493779 A1		20-04-1972	
		DE 1793588 A1		08-06-1972	
		FR 1448811 A		12-08-1966	
		GB 1103144 A		14-02-1968	
		NL 6504638 A ,B		14-10-1965	
		US 3642868 A		15-02-1972	
		US 3801540 A		02-04-1974	
		BE 624206 A			
		CH 418636 A		15-08-1966	
		DE 1201349 B		23-09-1965	
		FR 1337163 A		06-09-1963	
		GB 996502 A		30-06-1965	
		NL 284832 A			
		US 3441575 A		29-04-1969	
		US 3494887 A		10-02-1970	
		US 3497549 A		24-02-1970	
		BE 647219 A		28-10-1964	
		CH 482773 A		15-12-1969	
		DE 1286041 B		02-01-1969	
		FR 1391479 A		05-03-1965	
		GB 1001098 A		11-08-1965	
		NL 6404697 A ,B		30-10-1964	
GB 1327591	A 22-08-1973	AT 303971 B		27-12-1972	
		DE 2058164 A1		16-06-1971	
		FR 2072783 A5		24-09-1971	
		US 3867414 A		18-02-1975	
US 3543293	A 24-11-1970	DE 1593972 A1		24-09-1970	
		FR 1507642 A		29-12-1967	
		GB 1123505 A		14-08-1968	
US 3666809	A 30-05-1972	DE 2048089 A1		22-04-1971	
		FR 2065162 A5		23-07-1971	
		GB 1319279 A		06-06-1973	
		NL 7014708 A ,B,		14-04-1971	